

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P451863

Luminaire Tested: **GALN-SA2D-730-U-T2R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451863  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2D-730-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14439 lumens  
Efficiency: N/A  
Efficacy: 115.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

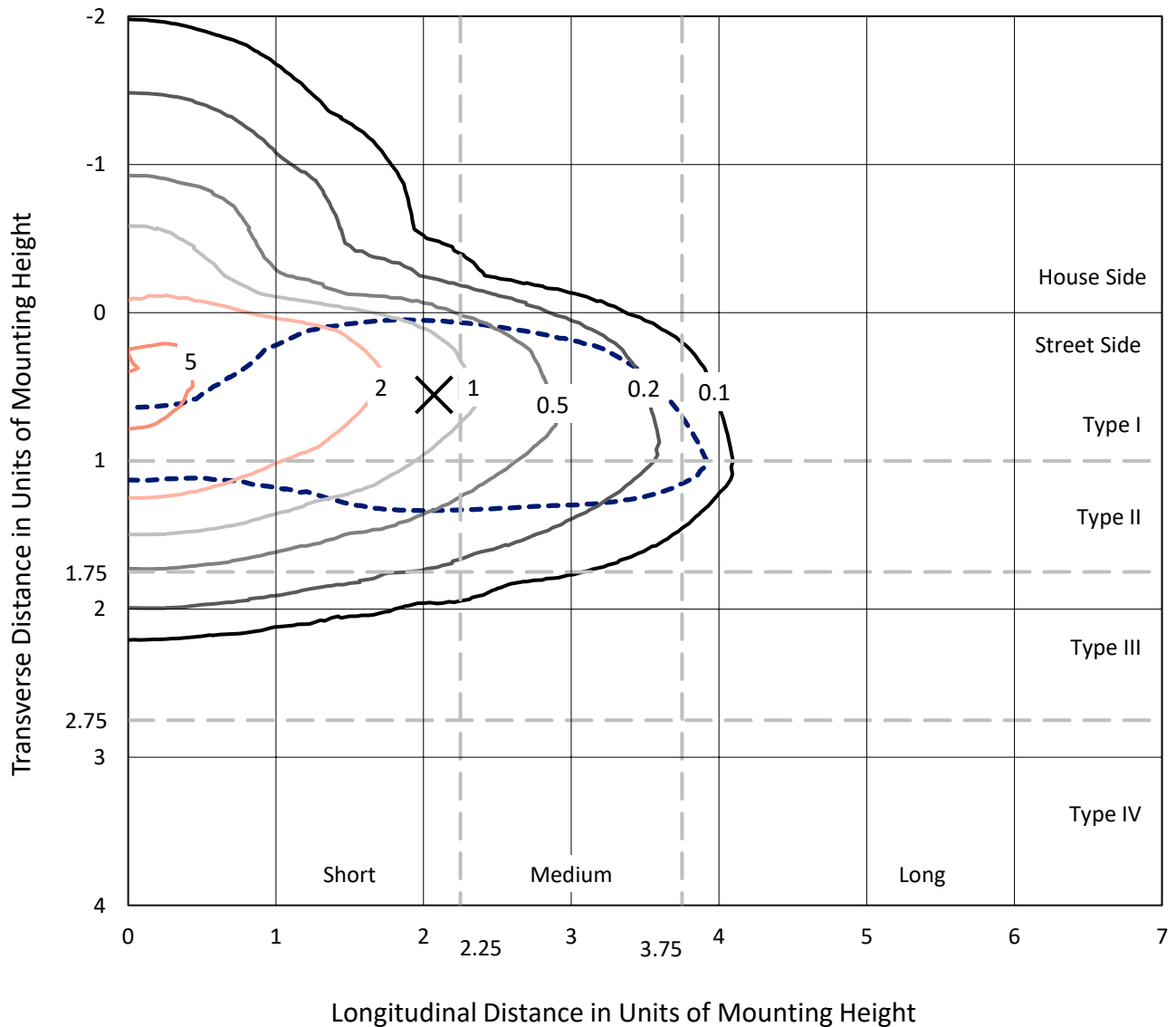
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

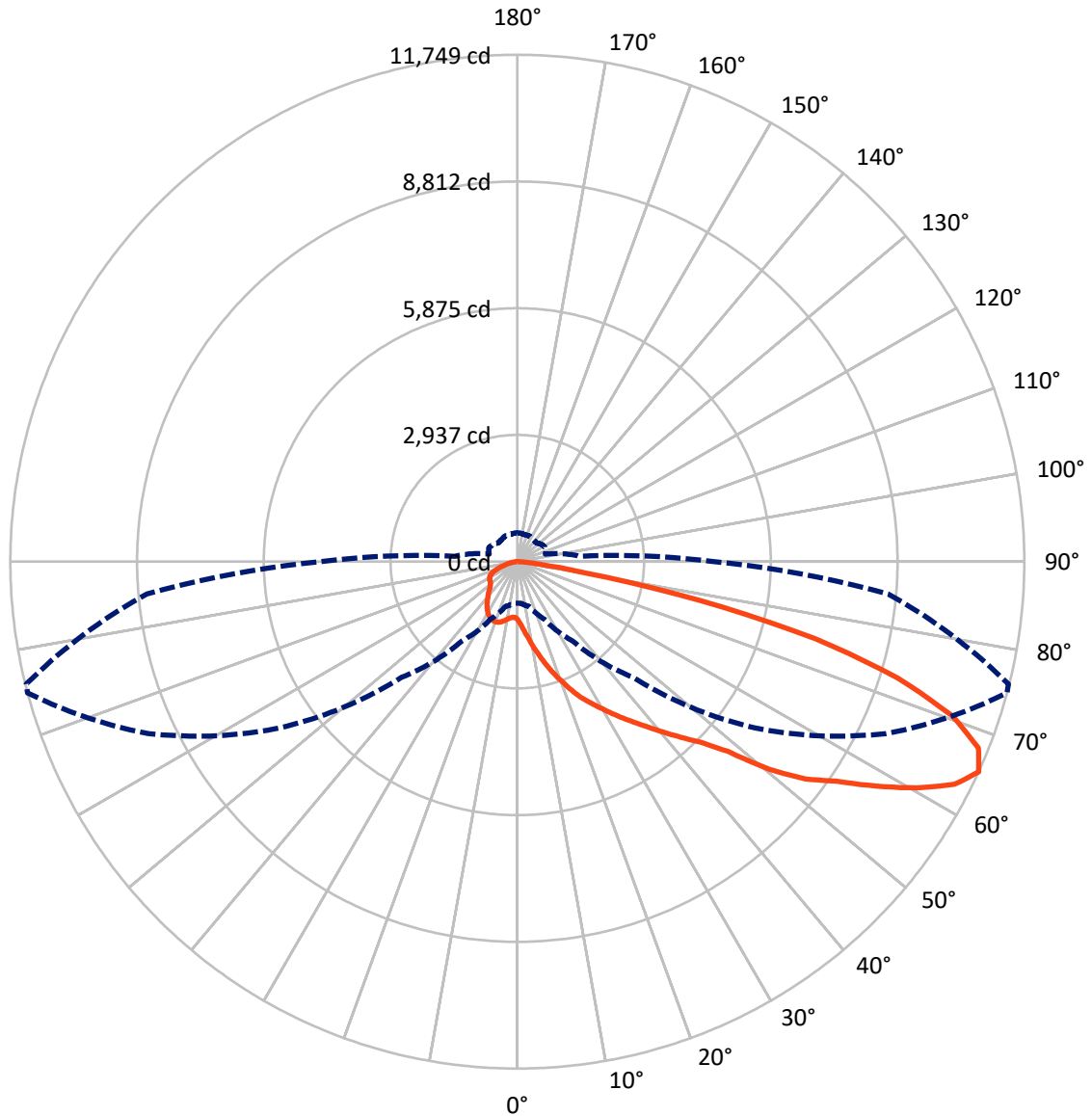
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2427.4	0.0	2427.4
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	12011.6	0.0	12011.6
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	14439.0	0.0	14439.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	163.0	1.1
10°-20°	638.4	4.4
20°-30°	1233.2	8.5
30°-40°	2003.2	13.9
40°-50°	2755.5	19.1
50°-60°	3253.3	22.5
60°-70°	2850.4	19.7
70°-80°	1360.8	9.4
80°-90°	181.1	1.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	14439.0	100.0
0°-180°	14439.0	100.0

**Coefficient of Utilization**



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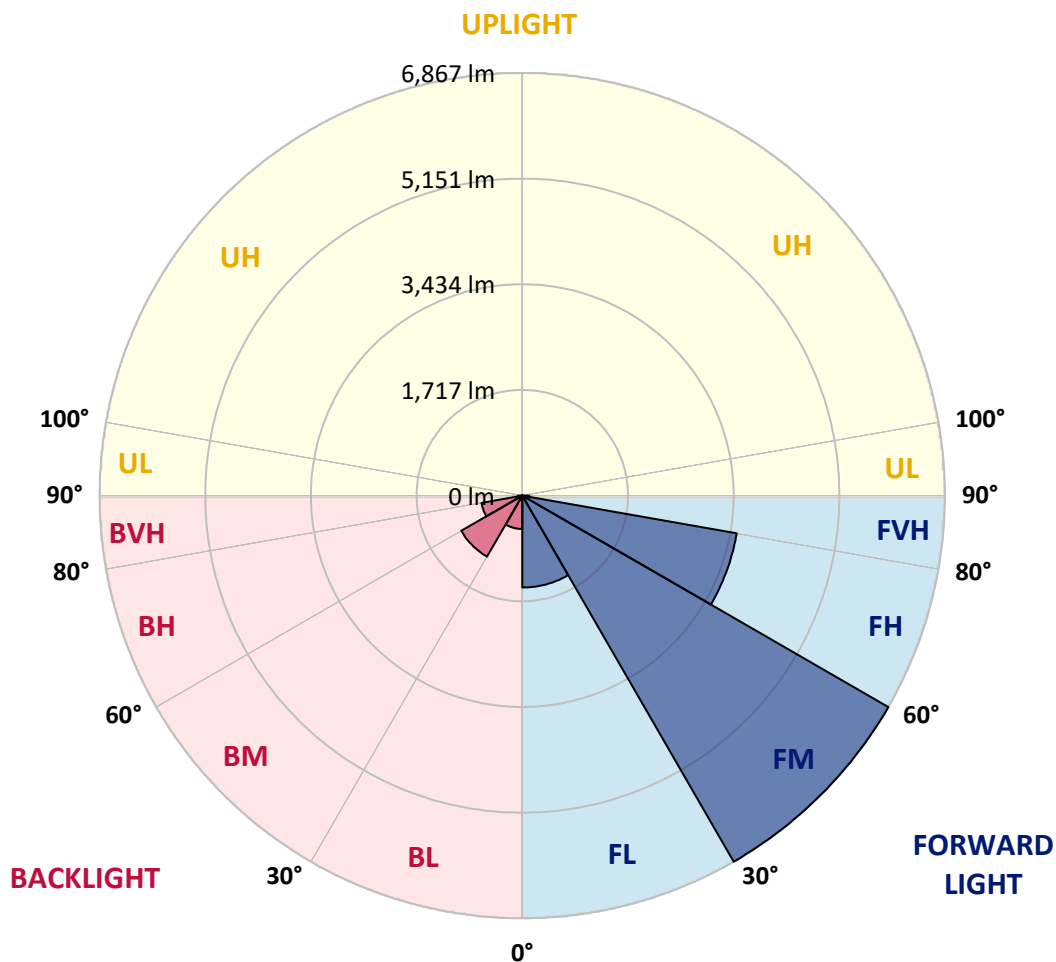
CATALOG NUMBER: GALN-SA2D-730-U-T2R

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1492.8	10.3			
FM (30°-60°)	6867.5	47.6			
FH (60°-80°)	3538.2	24.5			G2/5000
FVH (80°-90°)	113.2	0.8			G2/225
BL (0°-30°)	541.9	3.8	B2/1000		
BM (30°-60°)	1144.5	7.9	B2/2500		
BH (60°-80°)	673.1	4.7	B2/1000		G2/1000
BVH (80°-90°)	67.9	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1341.6	1341.6	1341.6	1341.6	1341.6	1341.6	1341.6	1341.6	1341.6	1341.6	1341.6
2.5°	1782.5	1770.7	1758.2	1723.8	1686.9	1645.4	1585.9	1528.7	1452.8	1450.4	1394.0
5°	2276.7	2268.8	2213.2	2181.1	2095.8	1982.2	1885.9	1736.3	1597.7	1581.2	1471.6
7.5°	2730.9	2700.4	2679.2	2621.3	2536.7	2391.0	2204.6	2002.6	1770.7	1748.8	1567.1
10°	3073.1	3070.0	3059.1	3008.9	2945.5	2800.6	2593.8	2304.1	1990.0	1947.0	1683.0
12.5°	3329.2	3331.6	3330.0	3329.2	3283.8	3160.9	2936.9	2631.4	2211.7	2181.1	1816.9
15°	3497.6	3521.1	3530.5	3569.7	3573.6	3491.4	3298.7	2947.8	2461.5	2416.1	1961.1
17.5°	3608.8	3620.6	3664.4	3731.0	3785.0	3770.2	3598.7	3240.7	2716.8	2640.8	2110.6
20°	3715.3	3735.7	3769.4	3860.2	3955.8	3999.6	3879.0	3540.7	2969.8	2921.2	2275.9
22.5°	3937.0	3966.0	3977.7	4023.9	4105.4	4182.9	4128.1	3828.1	3247.0	3181.2	2451.3
25°	4312.1	4342.7	4309.8	4298.8	4325.4	4363.8	4352.1	4099.1	3508.6	3414.6	2617.3
27.5°	4800.8	4804.7	4740.5	4679.4	4613.6	4594.1	4558.0	4339.5	3735.7	3657.4	2784.2
30°	5325.5	5306.7	5200.2	5089.8	4978.6	4869.0	4765.6	4571.3	3988.7	3898.6	2947.8
32.5°	5812.7	5802.5	5684.2	5512.7	5324.8	5221.4	5012.3	4805.5	4259.6	4172.7	3116.2
35°	6177.6	6192.5	6062.5	5875.3	5670.1	5578.5	5314.6	5051.4	4540.0	4445.3	3299.5
37.5°	6436.9	6429.0	6313.9	6151.8	5971.7	5891.8	5667.8	5320.1	4841.5	4750.7	3500.0
40°	6529.3	6524.6	6439.2	6320.9	6206.6	6178.4	6037.4	5609.8	5186.9	5080.4	3741.2
42.5°	6470.5	6480.7	6424.3	6392.2	6371.1	6391.4	6404.7	5989.7	5563.6	5465.7	4002.8
45°	6290.4	6284.9	6277.1	6329.6	6448.6	6582.5	6768.1	6348.4	5973.2	5894.9	4353.6
47.5°	5968.5	6007.7	6027.3	6172.1	6432.2	6749.3	7186.3	6829.2	6567.6	6499.5	4888.5
50°	5518.2	5549.5	5665.4	5923.1	6310.8	6812.0	7595.2	7615.5	7559.1	7431.5	5469.6
52.5°	4814.9	4863.5	5102.3	5574.6	6061.7	6786.1	7842.6	8289.8	8364.2	8268.7	6042.1
55°	4027.8	4096.0	4348.1	4967.6	5718.7	6645.2	8013.4	8680.6	8977.4	8888.9	6593.5
57.5°	3257.2	3329.2	3588.5	4188.4	5120.3	6333.5	8125.4	9116.1	9812.3	9697.2	7279.5
60°	2441.1	2516.3	2738.7	3356.7	4268.3	5724.2	8049.4	9493.6	10646.4	10597.0	7966.4
62.5°	1574.9	1658.0	1851.4	2362.8	3280.7	4891.7	7642.9	9701.9	11368.5	11308.9	8467.6
65°	959.4	968.8	1075.3	1466.9	2245.3	3787.4	6713.3	9425.4	11749.1	11731.1	8620.3
67.5°	620.3	635.1	683.7	878.7	1346.3	2630.7	5367.8	8513.0	11526.7	11520.4	8304.7
70°	523.9	528.6	550.6	592.9	782.4	1595.3	3769.4	7058.7	10681.6	10681.6	7545.8
72.5°	468.3	474.6	482.4	495.7	558.4	903.8	2249.3	5494.7	9222.6	9283.7	6422.8
75°	425.3	423.7	428.4	430.7	476.2	590.5	1163.0	4063.9	7134.7	7012.5	4651.2
77.5°	364.2	366.5	364.2	374.4	420.6	449.5	590.5	2727.0	4323.9	4165.7	2334.6
80°	299.2	303.1	307.0	313.3	359.5	341.5	354.8	1242.9	1599.2	1565.6	721.3
82.5°	224.8	230.3	236.5	251.4	282.7	225.6	224.0	531.0	577.2	528.6	265.5
85°	90.8	107.3	162.1	177.0	177.8	123.7	137.8	221.6	235.7	230.3	104.2
87.5°	21.1	25.1	52.5	79.1	72.8	46.2	50.9	72.1	82.2	76.0	35.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1341.6	1341.6	1341.6	1341.6	1341.6	1341.6	1341.6	1341.6	1341.6	1341.6	1341.6
2.5°	1368.2	1340.8	1293.8	1257.8	1231.9	1209.2	1195.1	1186.5	1183.4	1182.6	1183.4
5°	1414.4	1365.8	1291.4	1244.5	1218.6	1203.7	1195.1	1194.3	1195.1	1195.9	1193.5
7.5°	1477.8	1408.1	1311.0	1267.2	1247.6	1236.6	1232.7	1231.1	1231.9	1231.1	1231.1
10°	1562.4	1466.9	1349.4	1304.0	1287.5	1275.0	1268.7	1264.8	1261.7	1258.5	1257.0
12.5°	1655.6	1531.9	1390.9	1347.0	1323.6	1304.0	1289.9	1279.7	1272.6	1265.6	1264.0
15°	1759.8	1600.8	1437.1	1376.0	1342.3	1313.4	1289.1	1272.6	1260.1	1249.9	1249.2
17.5°	1859.2	1665.8	1468.4	1389.3	1340.0	1299.3	1267.2	1244.5	1228.8	1215.5	1213.9
20°	1965.7	1727.7	1482.5	1380.7	1316.5	1267.2	1224.9	1197.5	1179.4	1164.6	1162.2
22.5°	2073.0	1780.1	1481.0	1353.3	1275.8	1217.8	1173.2	1144.2	1123.1	1108.2	1102.7
25°	2175.6	1822.4	1461.4	1309.5	1219.4	1159.1	1113.7	1087.0	1068.2	1050.2	1050.2
27.5°	2268.1	1847.5	1424.6	1256.2	1161.4	1098.0	1062.0	1037.7	1020.5	1008.7	1001.7
30°	2358.9	1859.2	1374.5	1188.8	1100.3	1046.3	1017.3	1003.2	987.6	974.3	972.7
32.5°	2440.3	1856.9	1311.8	1123.1	1042.4	1004.0	992.3	981.3	964.9	946.1	941.4
35°	2519.4	1841.2	1237.4	1051.0	993.8	979.0	982.1	966.4	936.7	913.2	909.3
37.5°	2605.6	1813.0	1156.0	992.3	953.1	967.2	975.0	940.6	892.0	855.2	846.6
40°	2705.1	1780.9	1071.4	933.5	921.0	956.2	956.2	892.8	826.2	803.5	797.3
42.5°	2821.8	1754.3	1000.9	884.2	894.4	929.6	925.7	829.4	802.0	790.2	787.1
45°	3006.6	1744.9	928.1	841.1	872.4	898.3	866.2	807.4	791.8	782.4	779.3
47.5°	3298.7	1755.9	863.8	809.0	847.4	867.0	799.6	792.6	781.6	768.3	766.7
50°	3569.7	1745.7	818.4	791.0	825.5	829.4	772.2	774.6	768.3	753.4	750.3
52.5°	3791.3	1713.6	789.4	781.6	806.7	763.6	746.4	755.0	752.6	733.8	730.7
55°	4034.9	1694.0	775.3	781.6	794.1	706.4	722.1	734.6	731.5	718.2	717.4
57.5°	4330.1	1697.9	765.2	784.0	781.6	677.4	697.8	712.7	711.9	708.0	708.0
60°	4632.4	1699.5	749.5	783.2	766.7	654.7	672.7	693.9	695.5	697.8	697.8
62.5°	4732.7	1631.3	718.9	769.1	733.8	632.8	649.2	678.2	676.7	682.9	683.7
65°	4545.5	1442.6	673.5	737.0	691.5	617.1	631.2	657.9	649.2	665.7	668.8
67.5°	4137.5	1193.5	603.0	679.0	644.5	600.7	619.5	629.7	614.0	646.1	646.9
70°	3575.9	932.0	513.8	596.8	591.3	583.5	610.1	594.4	572.5	611.7	603.8
72.5°	2990.1	711.9	410.4	487.9	520.0	557.6	593.6	549.0	518.5	530.2	516.1
75°	2246.1	526.3	329.7	382.2	433.1	520.8	578.8	494.2	447.2	436.2	433.1
77.5°	1145.0	343.8	246.7	285.9	325.0	470.7	558.4	430.0	370.4	353.2	345.4
80°	408.8	213.8	173.9	197.4	219.3	404.9	487.9	355.6	287.4	284.3	287.4
82.5°	189.5	137.8	116.7	129.2	130.0	270.2	372.0	265.5	218.5	332.1	280.4
85°	81.4	68.9	65.8	64.2	59.5	120.6	209.1	142.5	222.4	99.5	91.6
87.5°	24.3	27.4	24.3	18.0	13.3	13.3	21.1	7.8	5.5	3.9	3.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)